

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kouichi MATSUDA et al.

Serial No: 09/548,213

Group Art Unit: 2838

Confirmation No.

Filed: April 12, 2000

Examiner: TIBBITS, P

For: CONTROL SYSTEM FOR CHARGING BATTERIES AND ELECTRONIC APPARATUS  
USING SAME

**LETTER TO THE EXAMINER REGARDING APPARENTLY LOST PAPERS**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

On June 30, 2003, Applicants filed a response to an Ex Parte Quayle Action, mailed January 29, 2003 and having a shortened statutory period for response of two months set to expire March 29, 2003, along with a petition for three months extension of time. It is noted that June 29, 2003 occurred on a Sunday, thus, the response of June 30, 2003 was timely. As of July 28, 2003, the June 30, 2003 response had not been registered on the PAIR system of the USPTO. A copy of a report from the PAIR system dated July 28, 2003 is attached hereto. The history of entries on the PAIR report indicates a time delay of about 3 to 14 days between filing of a paper and forwarding the paper to the Examiner. Since the papers filed on June 30, 2003 have been in the USPTO for more than 27 days and have not yet been noted on the PAIR system as having been received, Applicants believe that the papers may have become lost within the USPTO.

Attached are copies of the papers filed on June 30, 2003, along with a copy of a receipt card stamped June 30, 2003 and bearing the legends **OIPE**, **JC76** and **PATENT AND TRADEMARK OFFICE**. The papers filed on July 30, 2003 are as follows:

1. Reply/Amendment Fee Transmittal including a petition for a three month extension of time;
2. Ex Parte Quayle Response and Amendment; and
3. Letter to the Examiner Submitting Corrected And/Or Formal Drawings.

A check for \$930 (extension of time petition fee) was also submitted on June 30, 2003.

If the papers originally filed on July 30, 2003 have become lost, it is respectfully requested that the enclosed copies be entered and forwarded to the Examiner so that this reissue application may proceed.

If the facsimile copies of the drawings are not suitable for printing, please advise and Applicants will provide additional copies by mail.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 7/28/03

By: John H. Stowe

John H. Stowe  
Registration No. 32,863

1201 New York Ave, N.W., Suite 700  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

**CERTIFICATE OF FACSIMILE TRANSMISSION**

I hereby certify that this correspondence is being transmitted via facsimile to: Commissioner for Patents,

P.O. Box 1450, Alexandria, VA 22313-1450

on July 28, 2003

STAAS & HALSEY

By: Manish Tripathi

Date: 7-28-03

# Confirmation Report - Memory Send

Page : 001  
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Date : Jul-28 01:26pm  
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Start time : Jul-28 01:26pm  
End time : Jul-28 01:32pm  
Pages sent : 027  
Status : OK

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## LAW OFFICES STAAS & HALSEY LLP

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(202) 434-1501

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July 28, 2003

TO (FIRM): U.S. Patent and Trademark Office  
ATTN: Examiner Tibbits, P (Group Art Unit 2838)  
FAX NO.: (703)308-7722 / 7724 TELEPHONE:  
FROM: John H. Stowe  
RE: Serial No. 09/548,213  
OUR DOCKET: 122.1203-RE

NO. OF PAGES (including this Cover Sheet)

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700 Eleventh Street, N.W.  
Suite 500  
Washington, D.C. 20001

Facsimile  
(202) 434-1501

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July 28, 2003

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**COMMENTS:**



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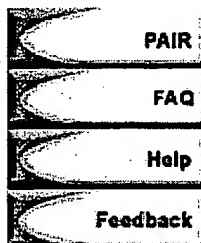
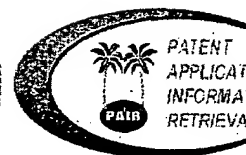
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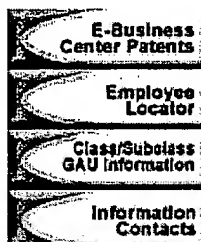
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## PATENT APPLICATION INFORMATION RETRIEVAL



## Other Links



Search results for application number: 09/548,213			
Filing or 371(c) Date:	04-12-2000	Class / Sub-Class:	320/138.000
Issue Date of Patent:	-	Location:	TECH CENTER 2800 - C FILE CP-4 4C24
Examiner Name:	TIBBITS, PIA FLORENCE	Status:	Ex parte Quayle Action
Group Art Unit:	2838	Attorney Docket Number:	122.1203-Re
Earliest Publication No:	-	Patent Number:	-
Earliest Publication Date:	-	Customer Number:	21171
Confirmation Number:	6182		

Foreign Priority

Continuity Data

Publication Review

## File Contents History

Number	Date	Contents Description
48	01-29-2003	Mail Ex Parte Quayle Action (PTOL - 326)
47	01-27-2003	Ex Parte Quayle Action
46	01-13-2003	Date Forwarded to Examiner
45	12-27-2002	Supplemental Response
42	01-09-2003	Date Forwarded to Examiner
41	12-27-2002	Response after Non-Final Action
40	12-27-2002	Request for Extension of Time - Granted
39	07-31-2002	Mail Non-Final Rejection
38	07-29-2002	Non-Final Rejection
37	06-11-2002	Examiner Interview Summary Record (PTOL - 413)
35	06-21-2002	Date Forwarded to Examiner
34	06-11-2002	Request for Continued Examination (RCE)
33	06-21-2002	Express Abandonment (for Entry of CPA / RCE / Rule129)
32	06-11-2002	Workflow - Request for RCE - Begin
31	12-11-2001	Mail Final Rejection (PTOL - 326)
30	12-11-2001	Final Rejection
29	11-05-2001	Date Forwarded to Examiner
28	10-31-2001	Request for Continued Examination (RCE)
27	10-31-2001	Workflow - Request for CPA - Finish
26	10-31-2001	Mail Express Abandonment (During Examination)
25	10-31-2001	Express Abandonment (during Examination)
24	10-31-2001	Workflow - Request for CPA - Begin
23	10-25-2001	Mail Advisory Action (PTOL - 303)

22	10-25-2001	Advisory Action (PTOL-303)
21	10-25-2001	Date Forwarded to Examiner
20	10-23-2001	Amendment after Final Rejection
19	10-23-2001	Request for Extension of Time - Granted
18	10-24-2001	Date Forwarded to Examiner
17	10-23-2001	Amendment after Final Rejection
16	05-01-2001	Mail Final Rejection (PTOL - 326)
15	05-01-2001	Final Rejection
14	04-04-2001	Miscellaneous Incoming Letter
13	04-03-2001	Date Forwarded to Examiner
12	03-19-2001	Response after Non-Final Action
11	03-19-2001	Request for Extension of Time - Granted
10	09-12-2000	Information Disclosure Statement (IDS) Filed
9	09-19-2000	Mail Non-Final Rejection
8	09-08-2000	Non-Final Rejection
7	08-01-2000	Information Disclosure Statement (IDS) Filed
6	07-05-2000	Case Docketed to Examiner in GAU
5	04-12-2000	Information Disclosure Statement (IDS) Filed
4	05-19-2000	Application Scanned
3	05-10-2000	Correspondence Address Change
2	06-06-2000	Notice of Reissue Published in Official Gazette
1	04-12-2000	Initial Exam Team nn

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Ex Parte Quayle Response and Amendment; Letter to the Examiner Submitting Corrected and/or Formal Drawings; Petition for 3-Month Extension of Time; CK for \$930 (Petition Fee)

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APPLICANT(S): Kouichi MATSUDA et al.

SERIAL NO: 09/548,213

CONFIRMATION NO.

TITLE: CONTROL SYSTEM FOR CHARGERGING BATTERIES AND ELECTRONIC APPARATUS USING SAME

FILING DATE: April 12, 2000

DOCKET NO: 122.1203-RE/JHS:mf

DUE DATE: June 29, 2003



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S&H Form: (01/03)

<b>REPLY/AMENDMENT FEE TRANSMITTAL</b>	Attorney Docket No.	122.1203-RE
	Application Number	09/548,213
	Filing Date	April 12, 2000
	First Named Inventor	Kouichi MATSUDA et al.
	Group Art Unit	2838
AMOUNT ENCLOSED	930.00	Examiner Name TIBBITS, P

FEE CALCULATION (fees effective 01/01/03)					
CLAIMS AS AMENDED	Claims Remaining After Amendment	Highest Number Previously Paid For	Number Extra	Rate	Calculations
TOTAL CLAIMS	82	- 133 =	0	X \$ 18.00 =	\$ 0.00
INDEPENDENT CLAIMS	27	- 45 =	0	X \$ 84.00 =	0.00
Since an Official Action set an <u>original</u> due date of <u>March 29, 2003</u> , petition is hereby made for an extension to cover the date this reply is filed for which the requisite fee is enclosed (1 month (\$110); 2 months (\$410); 3 months (\$930); 4 months (\$1,450); 5 months (\$1,970)):					930.00
If Notice of Appeal is enclosed, add (\$320.00)					
If Statutory Disclaimer under Rule 20(d) is enclosed, add fee (\$110.00)					
Information Disclosure Statement (Rule 1.17(p)) (\$180.00)					
Total of above Calculations =					\$ 930.00
Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28)					
<b>TOTAL FEES DUE =</b>					<b>\$ 930.00</b>

(1) If entry (1) is less than entry (2), entry (3) is "0".  
 (2) If entry (2) is less than 20, change entry (2) to "20".  
 (4) If entry (4) is less than entry (5), entry (6) is "0".  
 (5) If entry (5) is less than 3, change entry (5) to "3".

METHOD OF PAYMENT
<input checked="" type="checkbox"/> Check enclosed as payment. <input type="checkbox"/> Charge "TOTAL FEES DUE" to the Deposit Account No. below. <input type="checkbox"/> No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).

GENERAL AUTHORIZATION
<input checked="" type="checkbox"/> If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to: <div style="margin-left: 40px;">             Deposit Account No. <span style="border: 1px solid black; padding: 2px;">19-3935</span>              Deposit Account Name <span style="border: 1px solid black; padding: 2px;">STAAS &amp; HALSEY LLP</span> </div> <input checked="" type="checkbox"/> The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC § 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.

SUBMITTED BY: STAAS & HALSEY LLP			
Typed Name	John H. Stowe	Reg. No.	32,863
Signature		Date	6/30/03



# COPY

Docket No. 122.1203RE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

Kouichi MATSUDA et al.

Serial No. 09/548,213

Group Art Unit: 2838

Confirmation No.

Filed: April 12, 2000

Examiner: TIBBITS, P

For: CONTROL SYSTEM FOR CHARGERGING BATTERIES AND ELECTRONIC  
APPARATUS USING SAME

**EX PARTE QUAYLE RESPONSE**  
**AND**  
**AMENDMENT**

Mail Stop AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is in response to the Office Action mailed January 29, 2003, and having a period for response set to expire on March 29, 2003. A petition for a three-month extension of time, together with the requisite fee for the same, is submitted herewith, thereby extending the period for response to June 29, 2003.

The following amendments and remarks are respectfully submitted. Reconsideration of the claims is respectfully requested.

**IN THE CLAIMS:**

Please CANCEL claims 11-34, 89-100 and 133-147 without prejudice or disclaimer.

Please AMEND claims 148, 184 and 190 as follows:

148. (ONCE AMENDED) An electronic apparatus connected to an AC adapter which supplies DC power, capable of charging a battery by using power from the AC adapter while making a load operate by using the DC power supplied from the AC adapter, the power given to the load varying based on the state of the load, the electronic apparatus comprising:

a connector which receives the DC power from the AC adapter;

a charger, connected to the battery, which supplies charging power to the battery by using the power from the [connector] connector; and

a charge control circuit which controls the charger to control the charging power the charger supplies to the battery so that a sum of the power applied to the load and the power charged to the battery becomes a value assigned in advance.

184. (ONCE AMENDED) A charge control circuit for an electronic apparatus that has an input section for inputting power from a power source and a charger for charging a battery by using the power from the input section while the electronic apparatus [making] makes a load operate by applying the power input from the input section to the load, an output voltage of the power source being substantially a constant voltage, the output voltage of the power source falling to less than said substantially constant voltage when the power source outputs more than a predetermined current value, the power applied to the load from the input section varying based on the state of the load, the charge control circuit comprising:

a control circuit which controls the charging power the charger supplies to the battery, based on power input information obtained by a power input sensor which obtains the power input information by sensing an input of the power from the input section, so that a sum of the power applied to the load and the power charged to the battery from the input section is substantially in a current range in which said output voltage of the power source is the substantially [the] constant voltage, wherein the control circuit controls [the] a charging voltage the charger supplies to the battery so that [a] the charging voltage detected by a charging voltage detector [which detects the charging voltage of the battery] becomes a value assigned to the battery or lower.

190. (ONCE AMENDED) A charging apparatus for charging a battery for an electronic apparatus that is connected to an AC adapter and that is capable of charging the battery by using current from the [Ac] AC adapter while the electronic apparatus making a load operate by

using DC current supplied from the AC adapter, the current given to the load varying based on the state of the load, the charging apparatus comprising:

a charger, connected to the battery, which supplies charging current to the battery by using the current from a connector that is connected to the AC adapter to receive the DC current from the AC adapter; and

a charger control circuit which controls the charger to control the charging current the charger supplies to the battery so that a sum of the current applied to the load and the current charged to the battery becomes a value assigned in advance.

### REMARKS

In the Office Action, the Examiner indicated that claims 1-34, 89-112, 118-129 and 133-199 were pending in the application. In accordance with the foregoing, claims 148, 184 and 190 been amended and claims 11-34, 89-100 and 133-147 have been canceled without prejudice or disclaimer. Thus, claims 1-10, 101-112, 118-129 and 148-199 are now pending and under consideration.

### Drawings:

At page 2 of the Office Action, the Examiner noted that drawing informalities noted in paper no. 3, mailed September 19, 2000 required correction. A submission of corrected drawings accompanies this Amendment.

### Claim Objections:

At pages 2-4 of the Office Action, the Examiner objected to claims 148-183 and 185-199 as being essentially duplicates of certain claims in a group consisting of claims 11-34, 89-100 and 133-147. The Examiner also objected to claims 184 and 190 because of informalities. Claims 11-34, 89-100 and 133-147 have been canceled and claims 184 and 190 have been amended to correct the informalities. Claims 148-199 are now deemed allowable.

Regarding claim 184, Applicants did not clearly understand the intent of paragraph 2t at page 3 of the Office Action, however, claim 184 has been amended as set forth above to correct informalities noted by the Applicants. The above changes are believed to appropriately clarify claim 184.

Claim 190 has been amended to change "Ac" to --AC-- one place.

**Other Claim Amendments:**

Claim 148 has been amended to improve form.

**Summary:**

There being no further outstanding objections or rejections, it is submitted that the application is in condition for allowance. An early action to that effect is courteously solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date: \_\_\_\_\_

6/30/03

By: \_\_\_\_\_

John H. Stowe

John H. Stowe  
Registration No. 32, 863

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(202) 434-1500

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DOCKET NO. 122.1203-RE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Kouichi MATSUDA et al.

Serial No: 09/548,213

Group Art Unit: 2838

Confirmation No.

Filed: April 12, 2000

Examiner: TIBBITS, P

For: CONTROL SYSTEM FOR CHARGING BATTERIES AND ELECTRONIC APPARATUS  
USING SAME

**LETTER TO THE EXAMINER SUBMITTING  
CORRECTED AND/OR FORMAL DRAWINGS**

Box AF  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the requirement in Paper No. 19, mailed January 19, 2003, wherein the Examiner required that corrected and/or formal s be filed responsive to the Notice of Draftsperson's Patent Drawing Review included as a part of paper no. 4 mailed September 19, 2000, applicants submit herewith 15 sheets of corrected and/or formal s for filing in the subject application.

It is respectfully requested that the corrected and/or formal s filed herewith be entered in the above-referenced application.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 6/30/03

By: John H. Stowe

John H. Stowe

Registration No. 32,863

1201 New York Ave, N.W., Suite 700  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

Fig.1

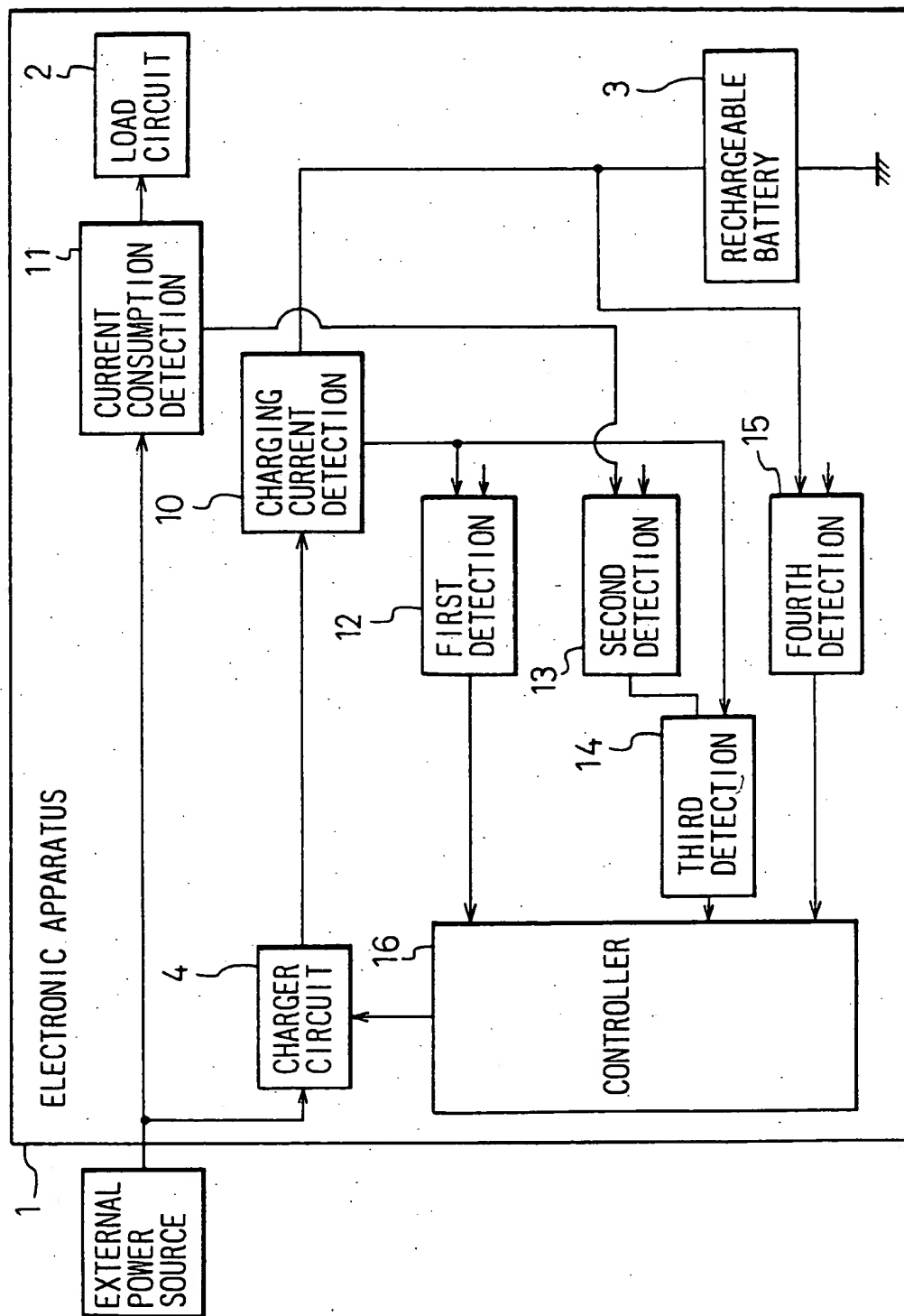


Fig.2

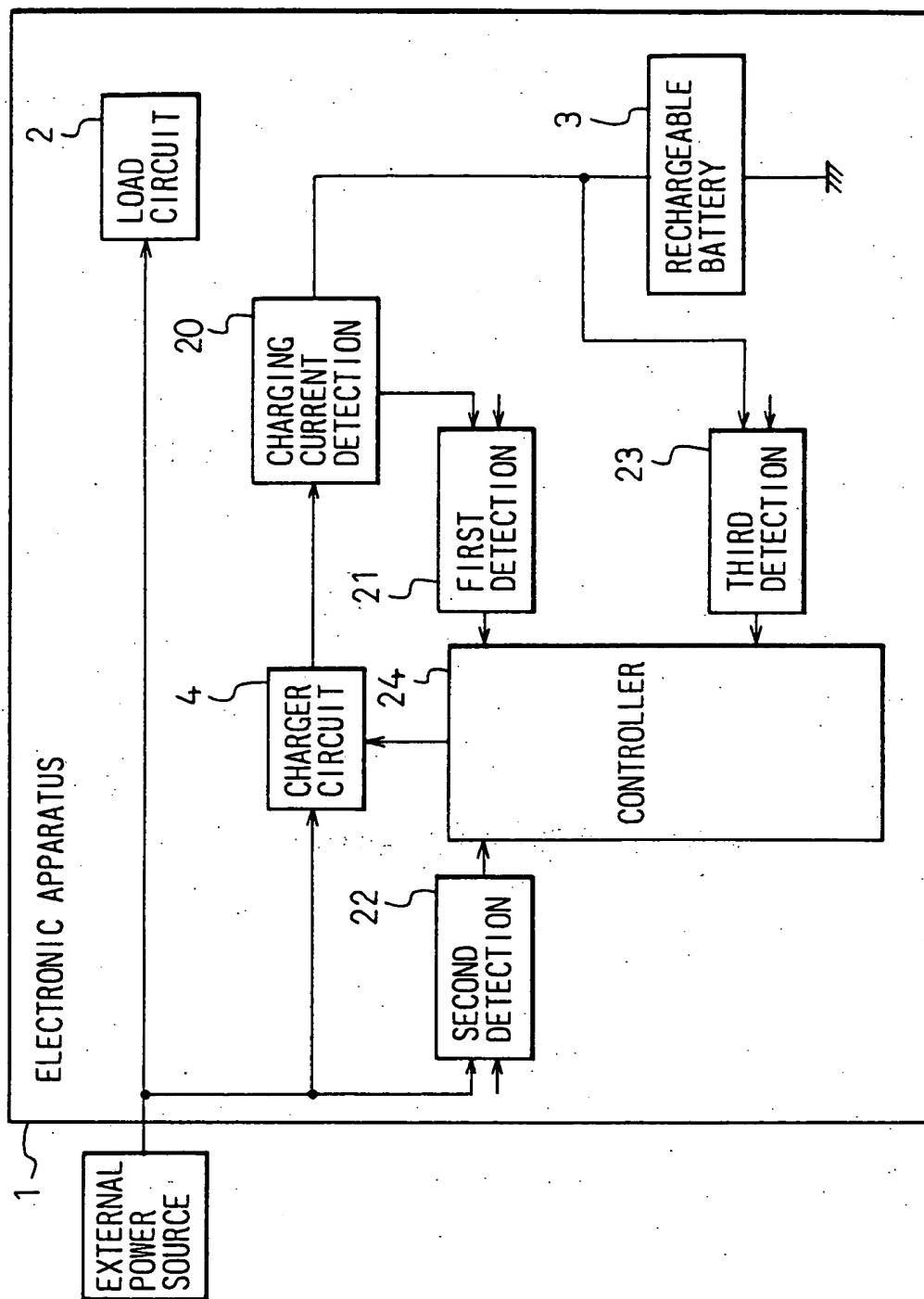


Fig.3A

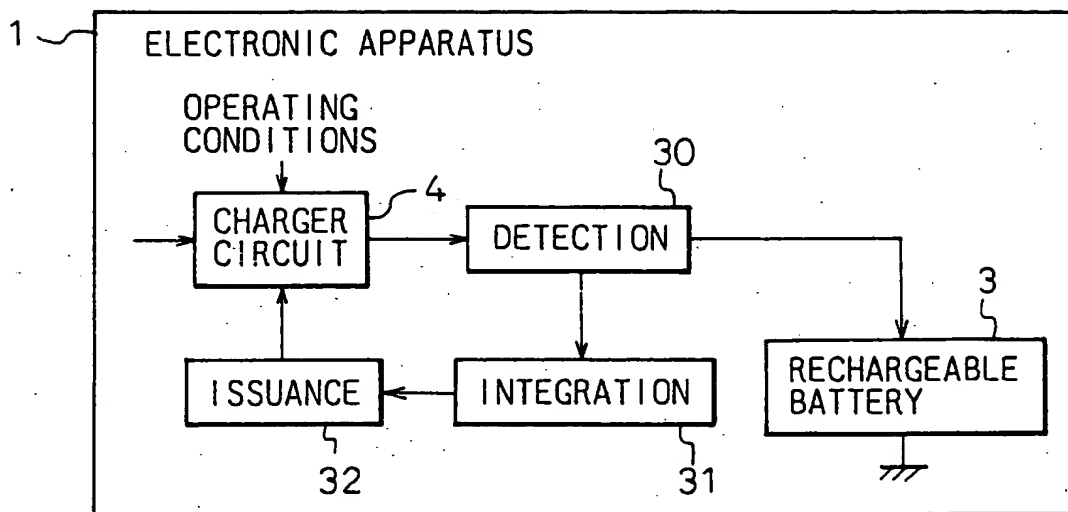


Fig.3B

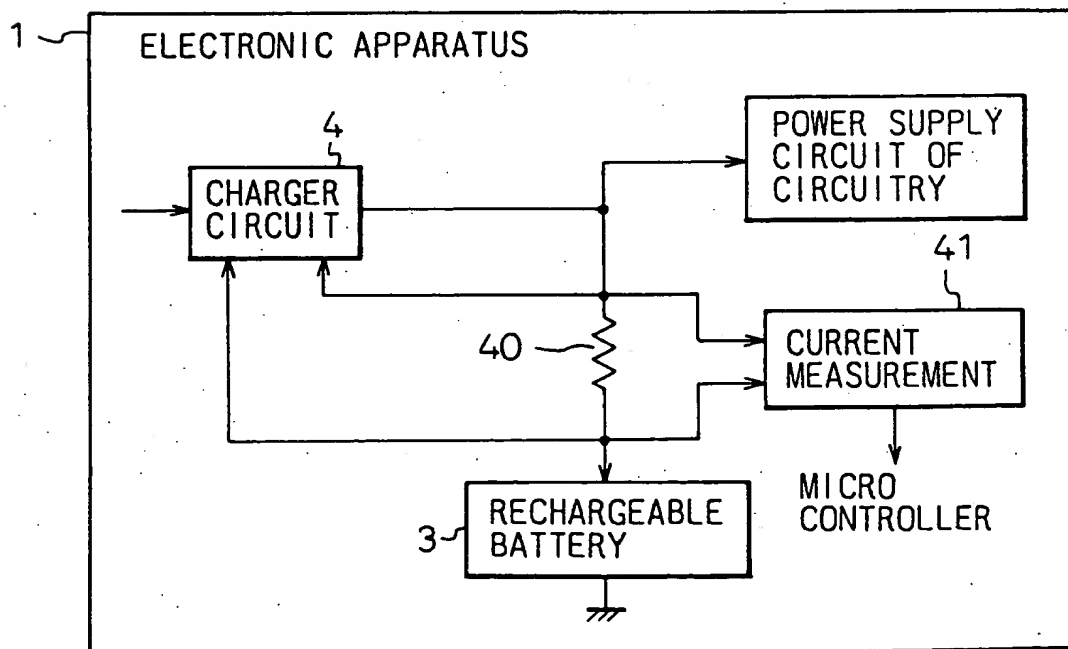




Fig.4

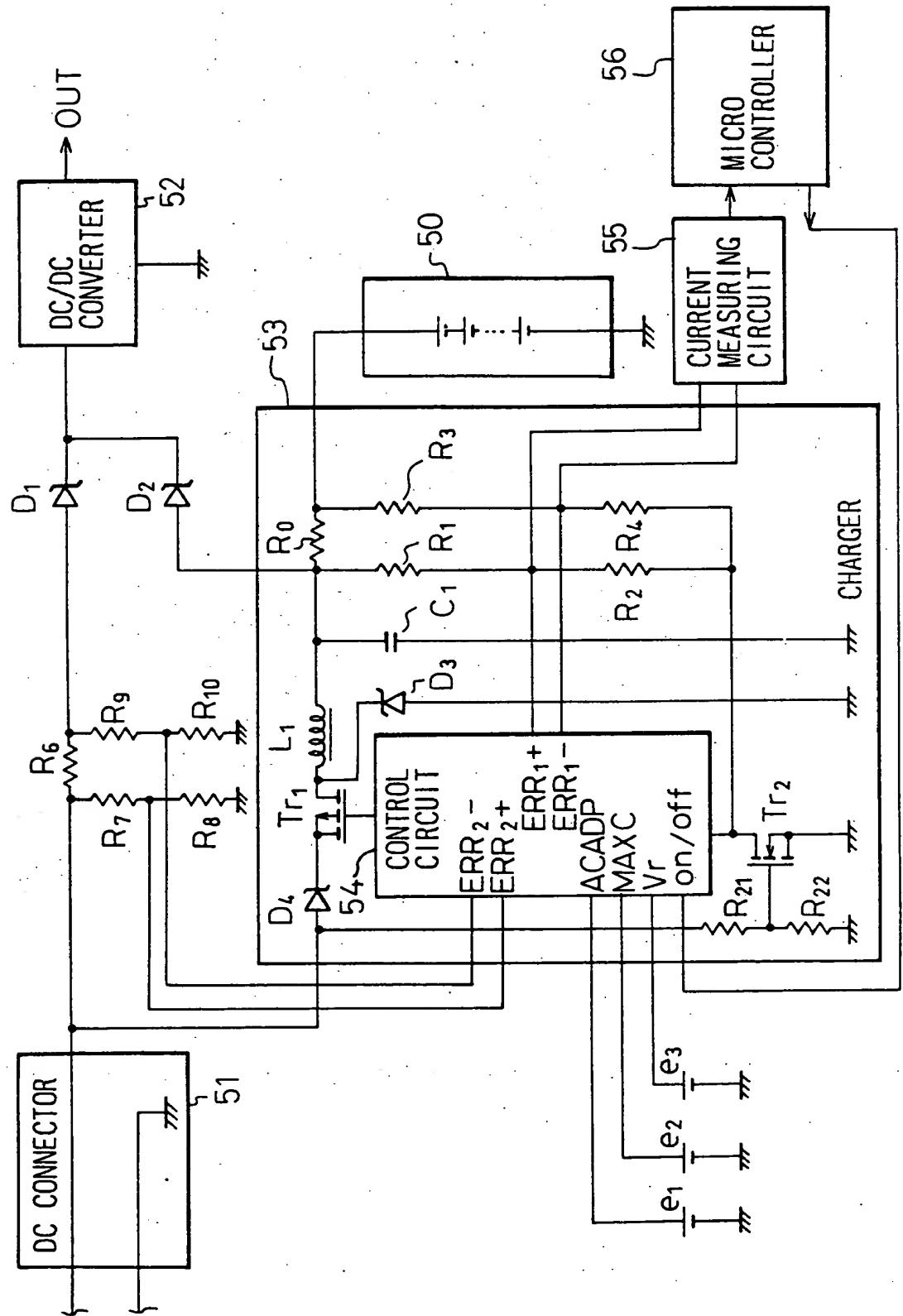


Fig. 5.

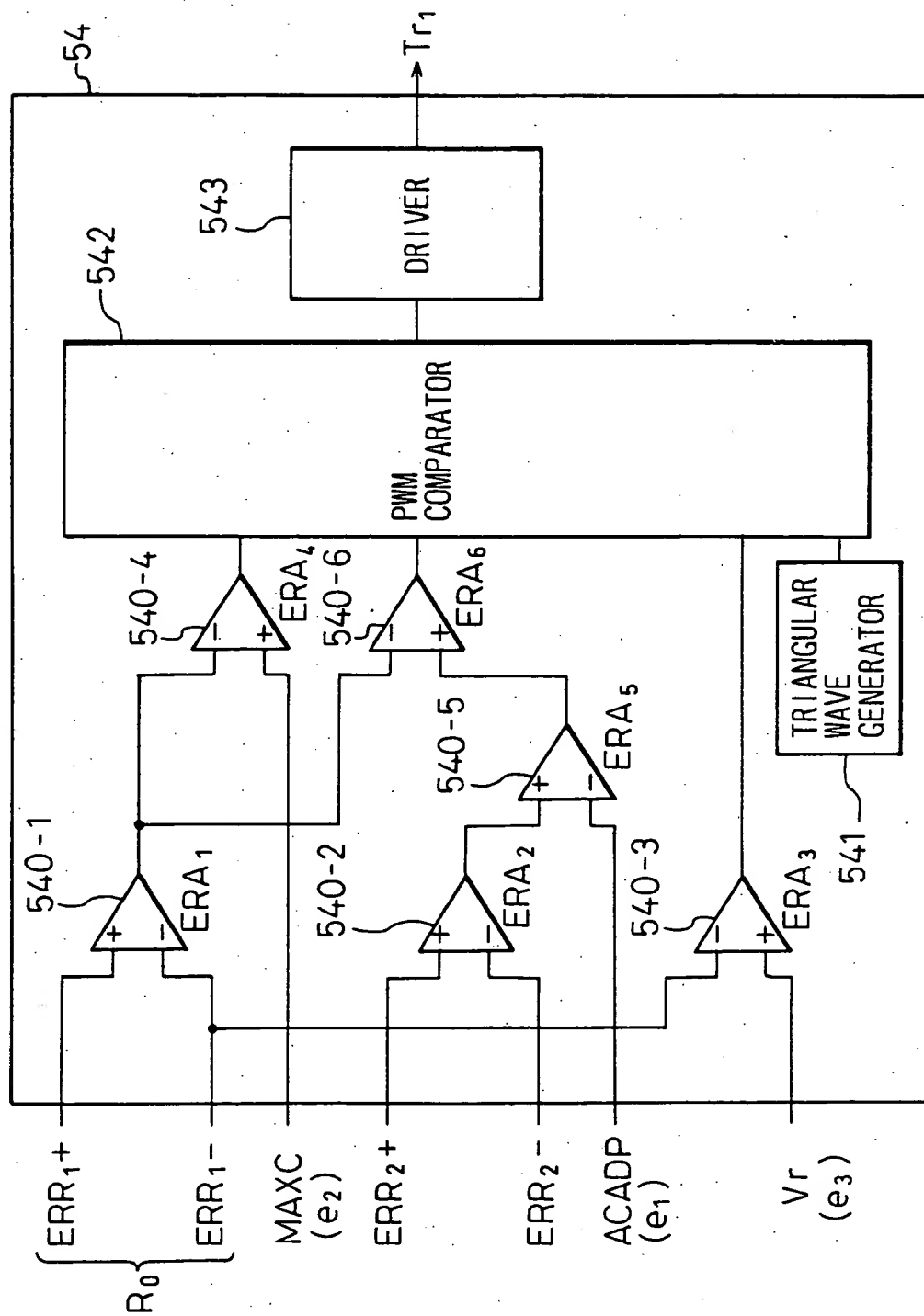


Fig.6

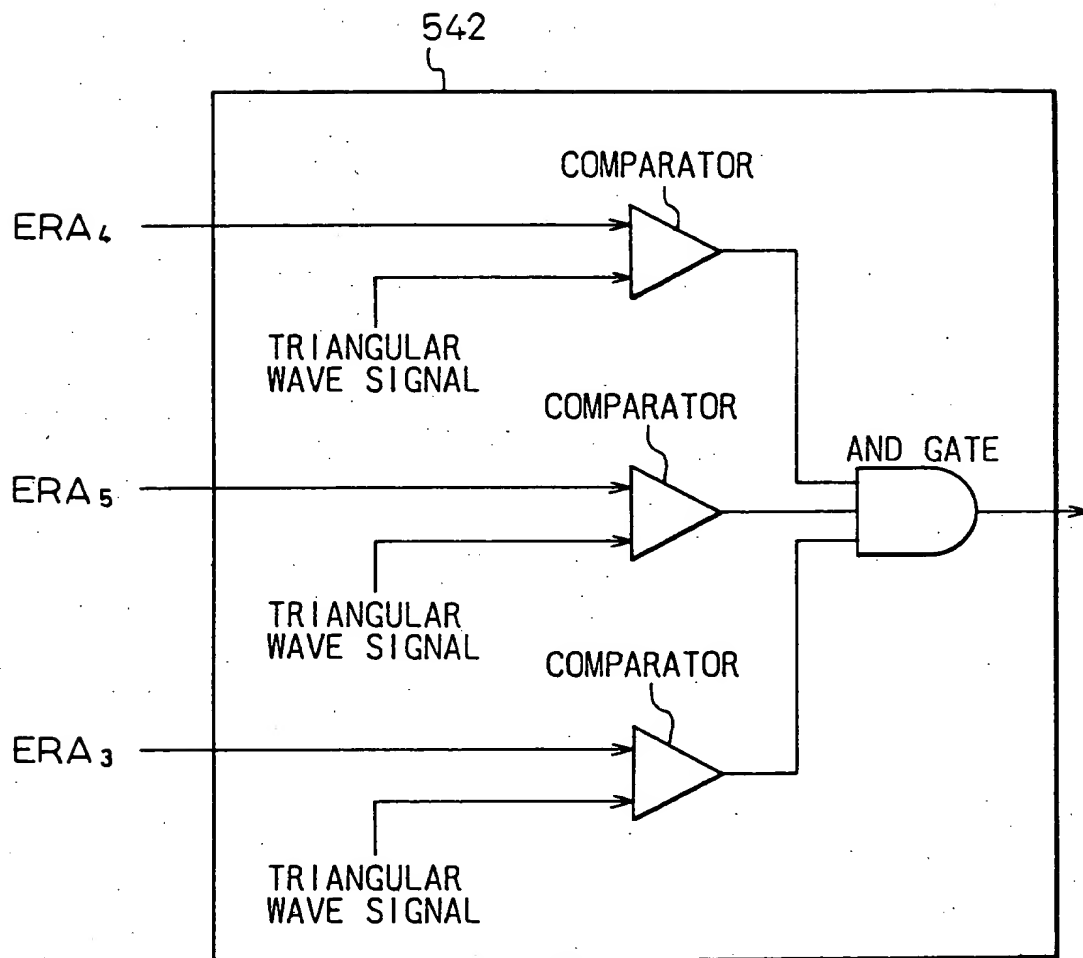
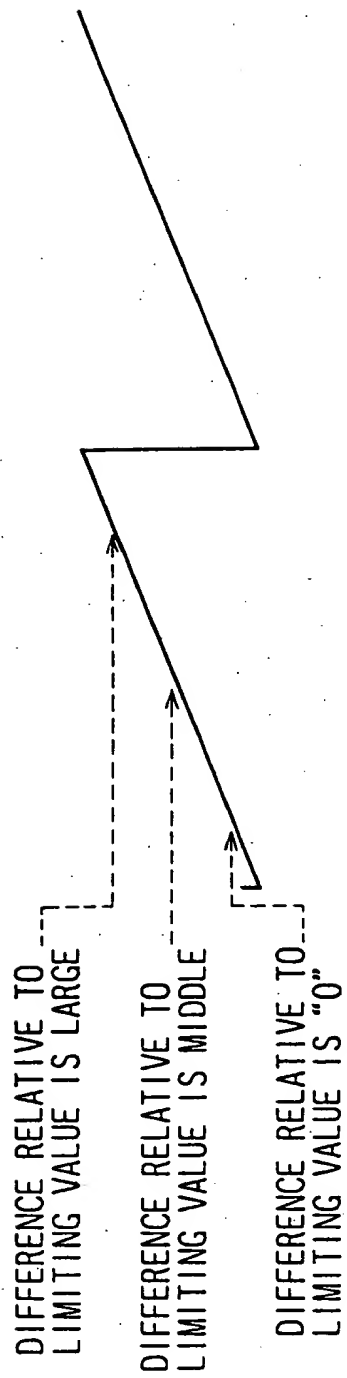


Fig. 7A



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Fig. 7B

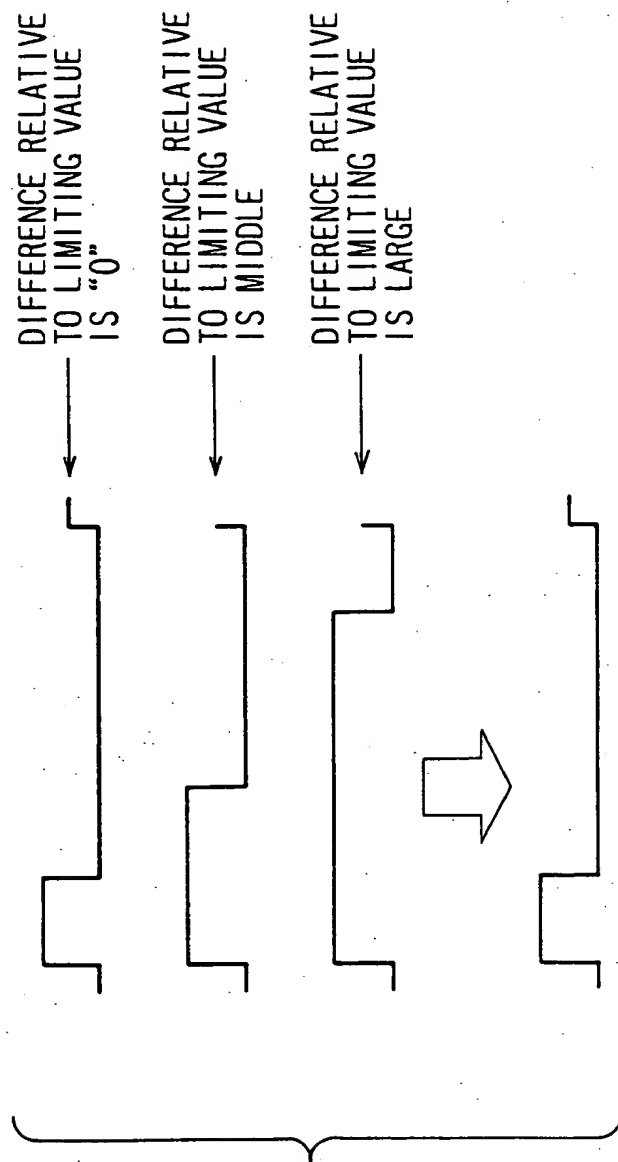


Fig. 8

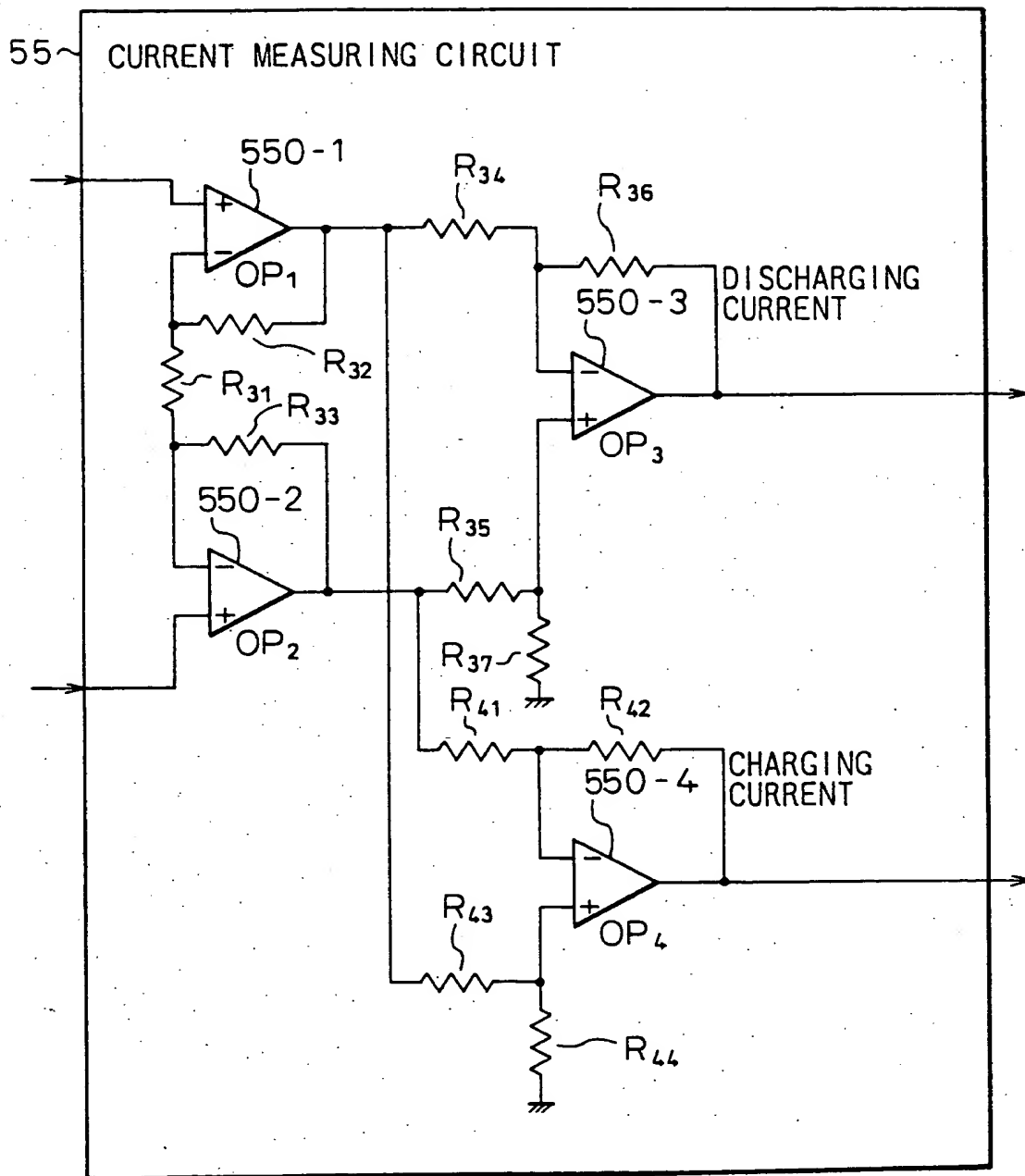


Fig.9A

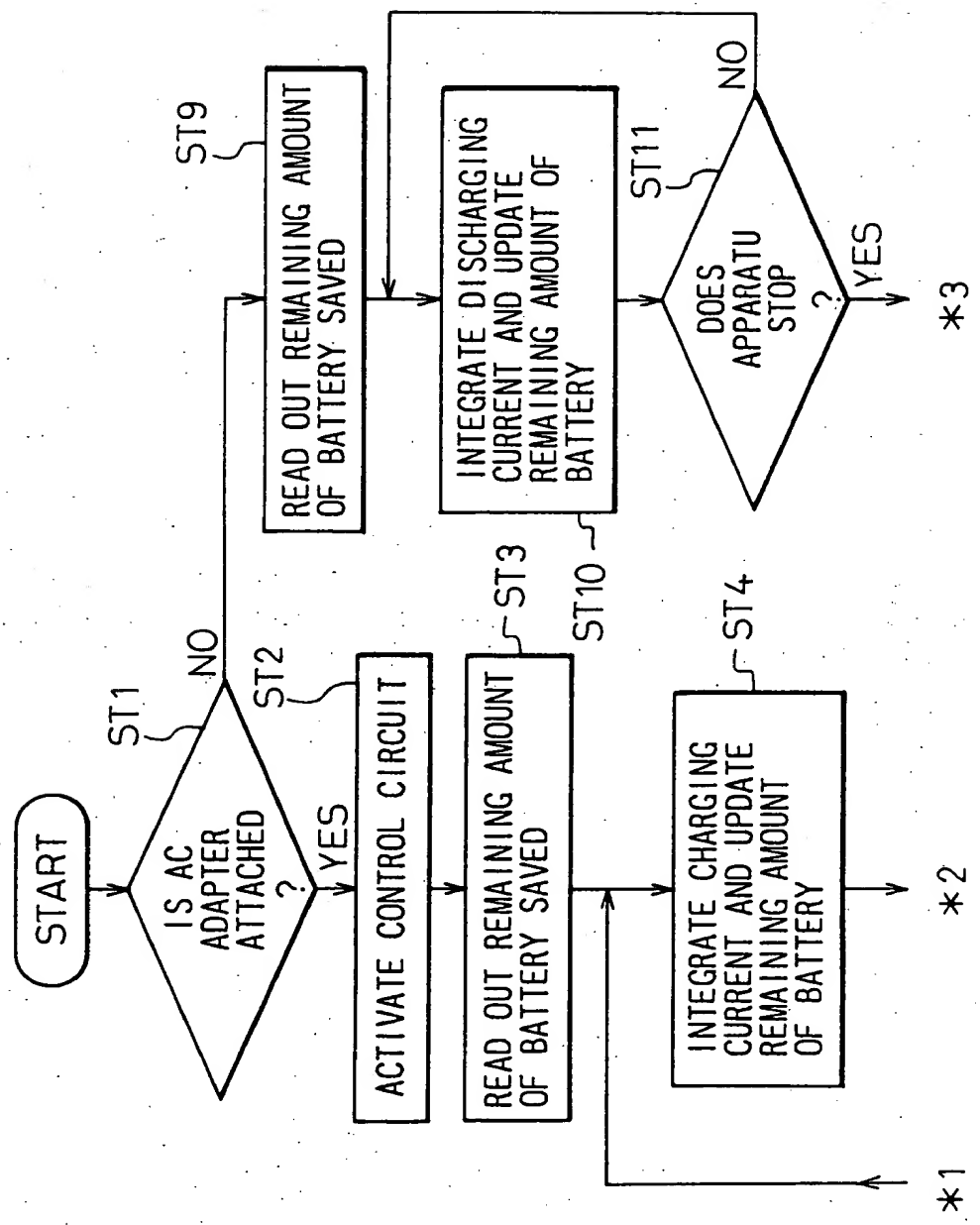


Fig. 9B

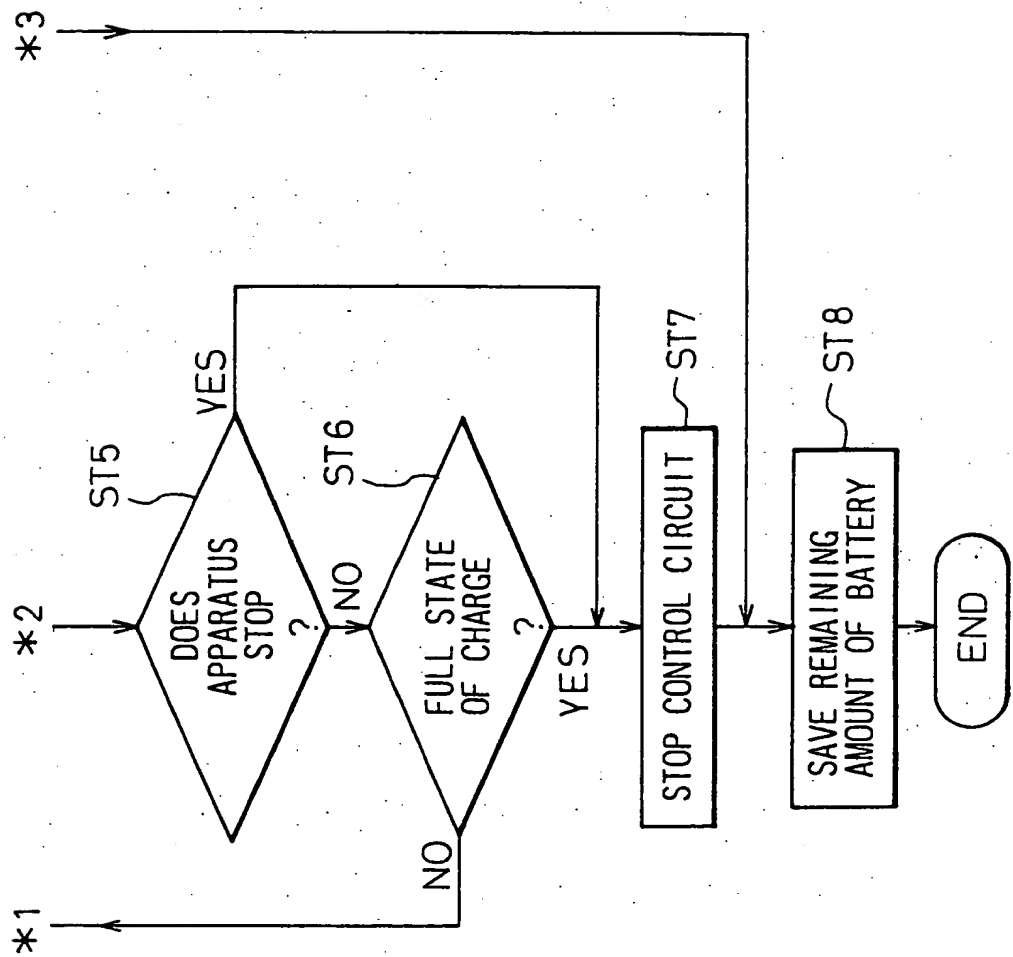


Fig.10

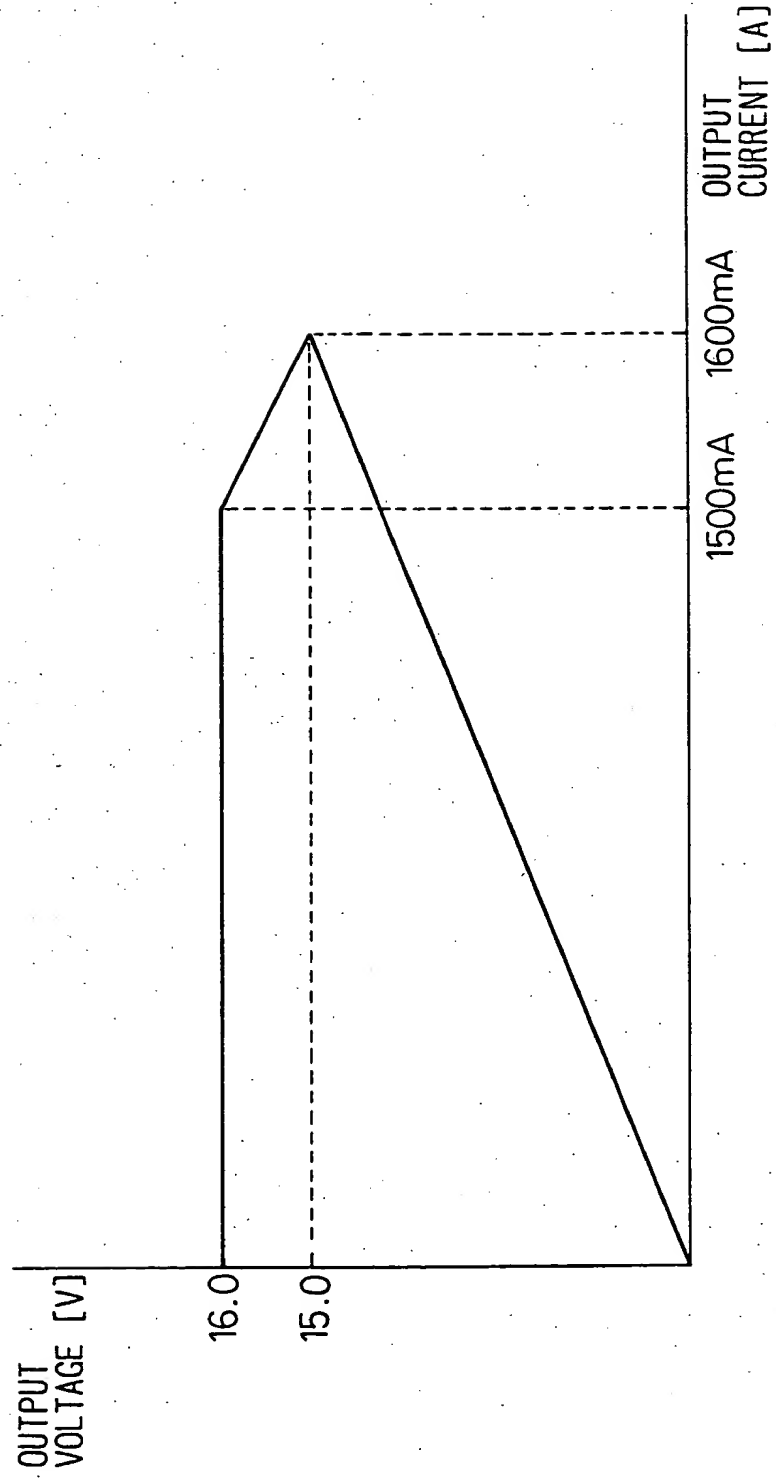




Fig. 11

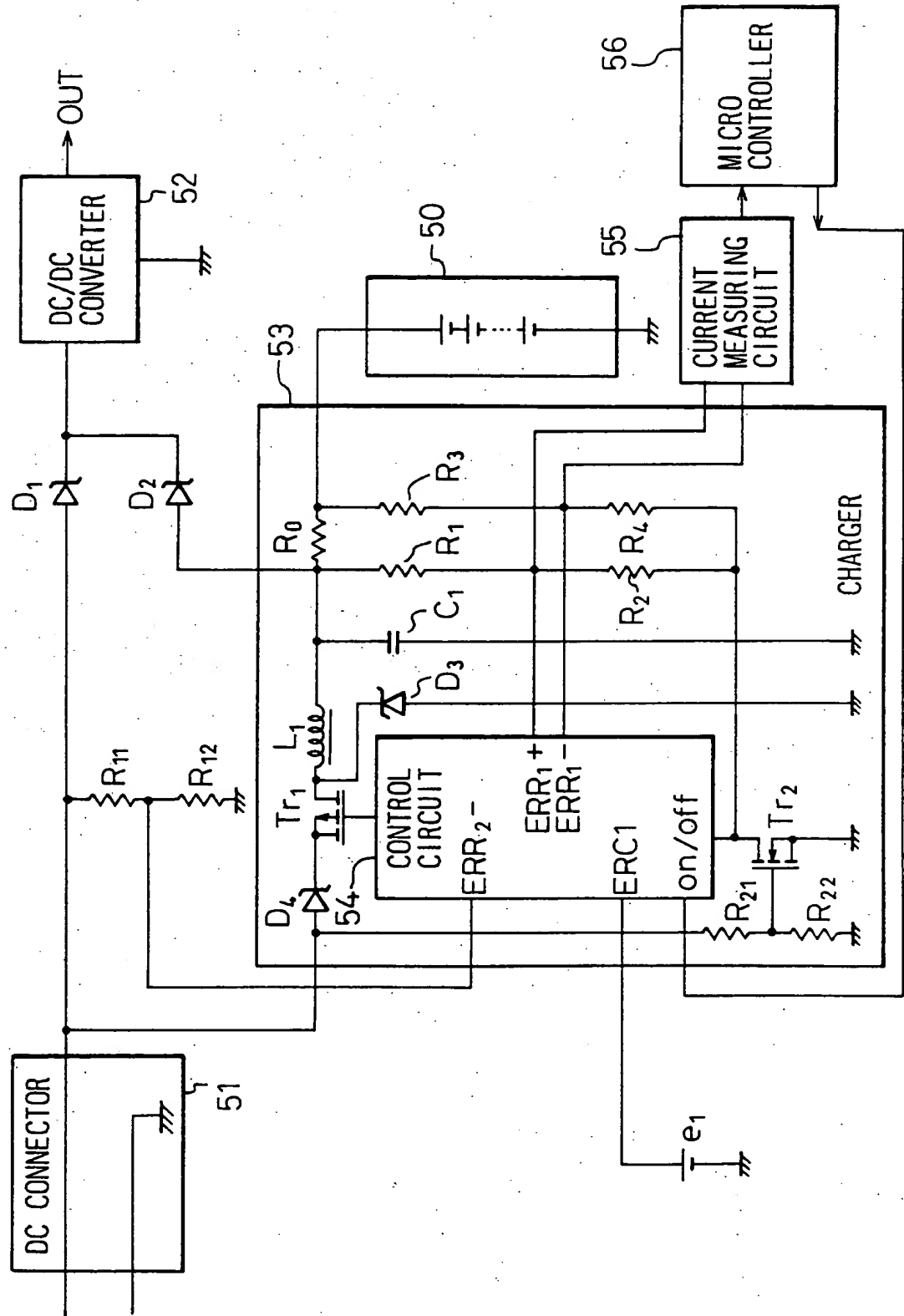


Fig.12

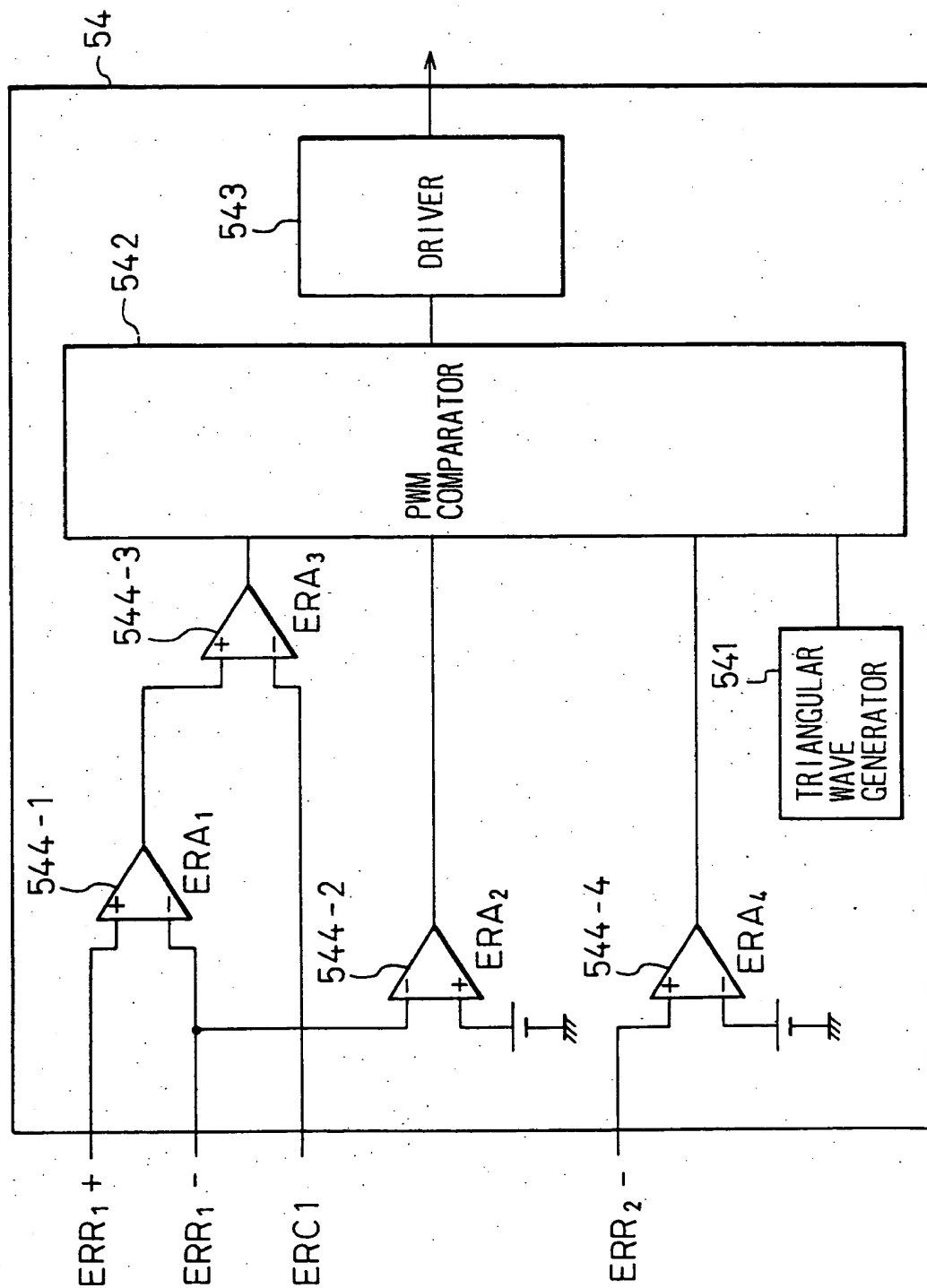


Fig. 13

PRIOR ART

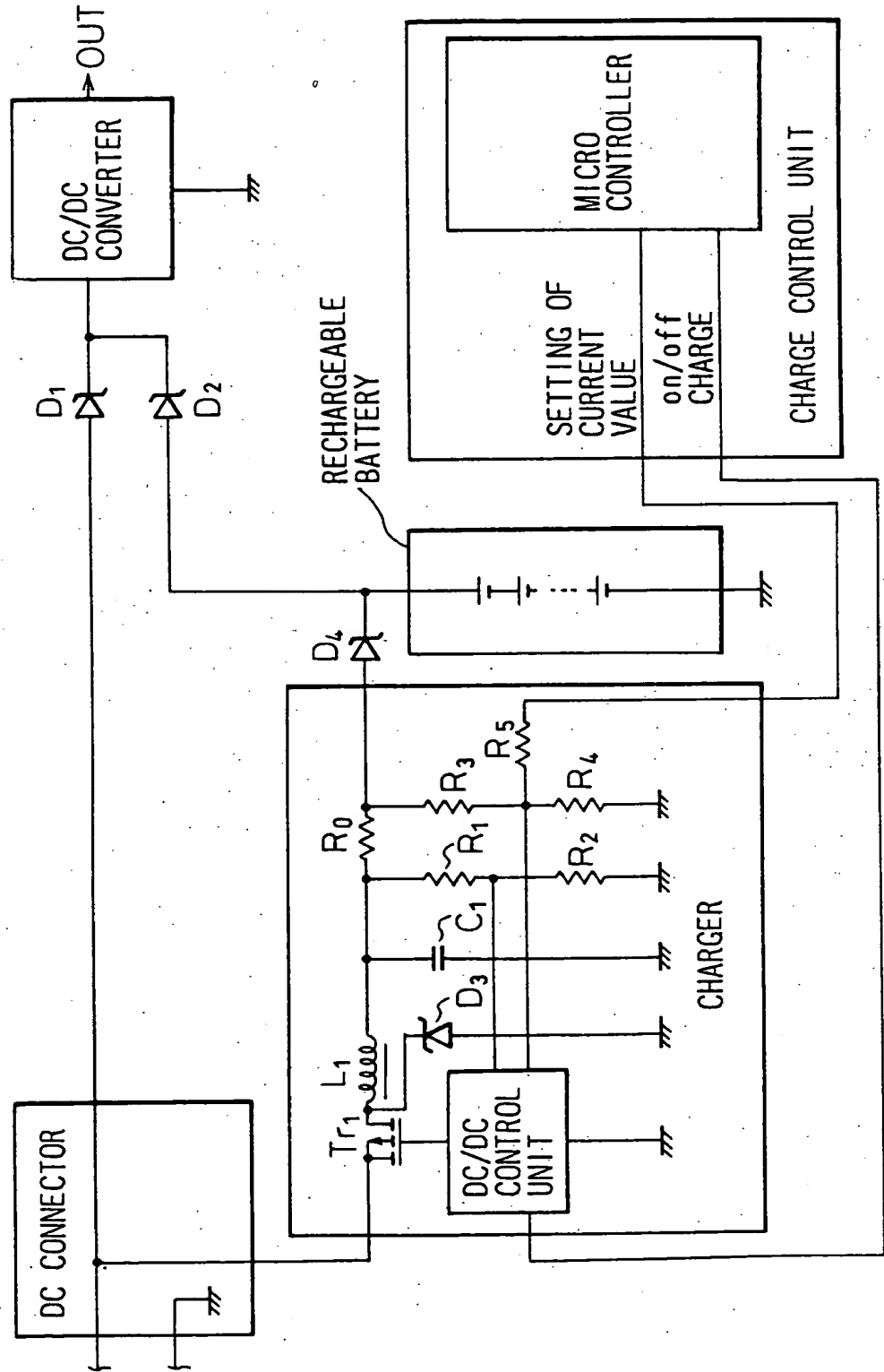


Fig. 14

PRIOR ART

